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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/500,620	07/01/2004	Jigang Liu	CN 020002	4330
24737	7590 01/11/2006		EXAMINER	
	NTELLECTUAL PRO	NGUYEN, TUAN HOANG		
P.O. BOX 30 BRIARCLIF	001 FF MANOR, NY 10510	)	ART UNIT PAPER NUMBER	
			2643	
			DATE MAILED: 01/11/200	6

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)						
Office Action Commons	10/500,620	LIU, JIGANG						
Office Action Summary	Examiner	Art Unit						
	Tuan H. Nguyen	2643						
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	I.  nely filed  the mailing date of this communication.  D (35 U.S.C. § 133).						
Status								
1)⊠ Responsive to communication(s) filed on 01 Ju	lv 2004.							
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,—	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims	·							
4)⊠ Claim(s) <u>1-14</u> is/are pending in the application.	•							
	4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.								
6) Claim(s) 1-14 is/are rejected.								
7) Claim(s) is/are objected to.								
8) Claim(s) are subject to restriction and/or	election requirement.							
Application Papers	·							
9) The specification is objected to by the Examine	_							
10) The drawing(s) filed on is/are: a) acce		Evaminer						
- · ·								
Applicant may not request that any objection to the	= ' '							
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex								
TT) The oath of declaration is objected to by the Ex	animer. Note the attached Office	Action of form P10-132.						
Priority under 35 U.S.C. § 119								
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>								
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 05/09/2005	4)  Interview Summary Paper No(s)/Mail Da 5)  Notice of Informal P 6)  Other:							

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#### **DETAILED ACTION**

### **Priority**

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

#### Information Disclosure Statement

2. The information disclosure statement (IDS) submitted on 05/09/2005 has been considered by Examiner and made of record in the application file.

## Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 1-14 are rejected under 35 U.S.C. 102(b) as being anticipated by Westergren et al. (US PAT. 6,115,409 hereinafter, "Westergren").

Regarding claim 1, Westergren discloses transceiver for transmitting signals in a transmitting mode and for receiving signals in a receiving mode (col. 4 lines 12-15) and comprising a digital synthesizer (item 58) driven phase locked loop (items 38 and 57), characterized in that said digital synthesizer driven phase locked loop (items 38 and 57), in said transmitting mode, is in a modulating state (col. 8 lines 18-21), with said digital synthesizer driven phase locked loop (items 38 and 57), in said receiving mode, being in an oscillating state (Fig. 1 and Fig. 3, col. 4 lines 12-66 and col. 10 lines 38-43).

Regarding claim 2, Westergren further discloses characterized in that said digital synthesizer (item 58) driven phase locked loop (items 57) receives, in said modulating state, a modulation signal (col. 10 line 38 through col. 11 line 2), with said digital synthesizer driven phase locked loop (items 38 and 57), in said oscillating state, receiving a non-modulation signal (Fig. 1 and Fig. 3 col. 2 lines 34-45).

Regarding claim 3, Westergren further discloses characterized in that said transceiver (item 10) comprises a controller (item 59) for generating said modulation signal and for generating control signals, with a switch (item 139) being coupled to said controller and said digital synthesizer driven phase locked loop (items 38 and 57) for in response to a first control signal supplying said modulation signal from said controller to said digital synthesizer driven phase locked loop (items 38 and 57) and in response to a second control signal supplying said non-modulation signal to said digital synthesizer

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driven phase locked loop (items 38 and 57 col. 6 lines 35-50).

Regarding claim 6, Westergren further discloses characterized in that said digital synthesizer driven phase locked loop (items 38 and 57), in said modulating state, generates a modulated signal (col. 10 line 38 through col. 11 line 2), with said digital synthesizer driven phase locked loop (items 38 and 57), in said oscillating state, generating a non-modulated signal (col. 2 lines 34-45).

Regarding claim 7, Westergren further discloses characterized in that an output of said digital synthesizer driven phase locked loop (items 57) is coupled via a first switch (item 132) and a transmitter part and a second switch (item 139) to an antenna (item 14) for in response to a first control signal supplying said modulated signal to said antenna for transmitting said modulated signal, with said first switch further being coupled to a first input of a demodulator and with said second switch further being coupled via a receiver part to a second input of said demodulator for in response to a second control signal supplying said non-modulated signal to said demodulator for demodulating a radio signal received via said antenna (Fig. 1 and Fig. 3 col. 9 lines 6-34).

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Regarding claim 8, Westergren further discloses digital synthesizer (item 58) driven phase locked loop (items 38 and 57) for use in a transceiver for transmitting signals in a transmitting mode and for receiving signals in a receiving mode (col. 4 lines 12-15) and comprising said digital synthesizer driven phase locked loop, characterized in that said digital synthesizer driven phase locked loop, in said transmitting mode, is in a modulating state (col. 4 lines 24-30), with said digital synthesizer driven phase locked loop, in said receiving mode, being in an oscillating state (col. 10 lines 38-43 and Fig. 1 and Fig. 3 col. 4 lines 12-66).

Regarding claim 9, Westergren further discloses phase locked loop (items 38 and 57) for use in a digital synthesizer driven phase locked loop for use in a transceiver for transmitting signals in a transmitting mode and for receiving signals in a receiving mode (col. 4 lines 12-15), and comprising said digital synthesizer driven phase locked loop, characterized in that said phase locked loop, in said transmitting mode, is in a modulating state (col. 4 lines 24-30), with said phase locked loop, in said receiving mode, being in an oscillating state (col. 10 lines 38-43 and Fig. 1 and Fig. 3 col. 4 lines 12-66).

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Regarding claim 10, Westergren further discloses digital synthesizer (item 58) for use in a digital synthesizer driven phase locked loop (items 38 and 57) for use in a transceiver for transmitting signals in a transmitting mode and for receiving signals in a receiving mode (col. 4 lines 12-15), and comprising said digital synthesizer driven phase locked loop, characterized in that said digital synthesizer, in said transmitting mode, is in a modulating state (col. 4 lines 24-30), with said digital synthesizer, in said receiving mode, being in an oscillating state (col. 10 lines 38-43 and Fig. 1 and Fig. 3 col. 4 lines 12-66).

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Regarding claim 11, Westergren further discloses system comprising at least one portable unit and at least one network unit for radio communication, with at least one unit comprising at least one transceiver for transmitting signals in a transmitting mode and for receiving signals in a receiving mode (col. 4 lines 12-15), and comprising a digital synthesizer driven phase locked loop (items 38 and 57), characterized in that said digital synthesizer driven phase locked loop, in said transmitting mode, is in a modulating state (col. 4 lines 24-30), with said digital synthesizer driven phase locked loop, in said receiving mode, being in an oscillating state (col. 10 lines 38-43 and Fig. 1 and Fig. 3 col. 4 lines 12-66).

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Regarding claim 12, Westergren further discloses portable unit comprising a transceiver for transmitting signals in a transmitting mode and for receiving signals in a receiving mode (col. 4 lines 12-15), and comprising a digital synthesizer driven phase locked loop (items 38 and 57), characterized in that said digital synthesizer driven phase locked loop, in said transmitting mode, is in a modulating state (col. 4 lines 24-30), with said digital synthesizer driven phase locked loop, in said receiving mode, being

in an oscillating state (col. 10 lines 38-43 and Fig. 1 and Fig. 3 col. 4 lines 12-66).

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Regarding claim 13, Westergren further discloses network unit comprising at least one transceiver for transmitting signals in a transmitting mode and for receiving signals in a receiving mode (col. 4 lines 12-15), and comprising a digital synthesizer driven phase locked loop (items 38 and 57), characterized in that said digital synthesizer driven phase locked loop, in said transmitting mode, is in a modulating state (col. 4 lines 24-30), with said digital synthesizer driven phase locked loop, in said receiving mode, being in an oscillating state (col. 10 lines 38-43 and Fig. 1 and Fig. 3 col. 4 lines 12-66).

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Regarding claim 14, Westergren further discloses method for transmitting signals in a transmitting mode and for receiving signals in a receiving mode via a digital synthesizer driven phase locked loop (items 38 and 57), characterized in that said method comprises a first step of bringing said digital synthesizer driven phase locked loop, in said transmitting mode, in a modulating state (col. 4 lines 24-30), and a second step of bringing said digital synthesizer driven phase locked loop, in said receiving mode, in an oscillating state (col. 10 lines 38-43 and Fig. 1 and Fig. 3 col. 4 lines 12-66).

# Allowable Subject Matter

Claims 4-5 are objected to as being dependent upon a rejected base claim, but 5. would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

#### Conclusion

6.	Any response	to this	action	should	be mailed	to:
	•					

\_\_\_ (Explanation, e.g., Amendment or After-final, etc.) Mail Stop

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Hand-delivered responses should be brought to:

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Alexandria, VA 22313

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tuan H. Nguyen whose telephone number is (571)272-8329. The examiner can normally be reached on 8:00Am - 5:00Pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Curtis Kuntz can be reached on (571)272-7499. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Tuan Nguyen Examiner

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